

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

October 7, 2014

Pihsiang Machinery Mfg. Co., Ltd c/o Dave Yungvirt Third Party Review Group, LLC (TPRG) 45 Rockefellar Plaza, Suite 2000 New York, NY 10111

Re: K142027

Trade/Device Name: 888 WNLE Powered Wheelchair/ROVI X3

Regulation Number: 21 CFR 890.3860 Regulation Name: Powered Wheelchair

Regulatory Class: Class II

Product Code: ITI

Dated: September 21, 2014 Received: September 25, 2014

Dear Mr. Yungvirt:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21

CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Felipe Aguel -S

for Carlos L. Peña, PhD, MS
Director
Division of Neurological
and Physical Medicine Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

0(k) Number <i>(if known)</i> 42027
evice Name 8 WNLE Powered Wheelchair/ROVI X3
dications for Use (Describe) ne intended use of the 888 WNLE powered wheelchair by Pihsiang Machinery Mfg. Co., LTD is to provide mobility lutions to individuals who are limited to a seated position.
pe of Use (Select one or both, as applicable) Prescription Use (Part 21 CFR 801 Subpart D) Over-The-Counter Use (21 CFR 801 Subpart C)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

CONTINUE ON A SEPARATE PAGE IF NEEDED.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."



- World Factory of Most Reliable Consumer Powered Products -

Pihsiang offers you a complete mobility package incorporating world class quality, design, reliability and service.

No. 108 Hsin-He Road, Hsin-Feng Hsiang, HsinChu 304, Taiwan Email: sales@pihsiang.com.tw Tel:+886-3-568-8555 Fax: +886-3-568-8555

510(k) Summary 888 WNLE Power Wheelchair

Submitter's Name & Address:

Pihsiang Machinery Mfg. Co., LTD.

No. 108 Hsin-He Road,

Hsin-Feng Hsiang

HsinChu 304, Taiwan

Phone: +886-3-568-8585 Ext. 1500

Fax: +886-3-568-8855

Contact Name: Edwin Huang

Contact Title: Corporate Compliance Officer

Contact E-mail: edwinhuang@mail.pihsiang.com.tw

Official Correspondent

Name: David Lin

Title: President, Shoprider Mobility Products, Inc.

Email: dlin@shoprider.com Phone: 310-328-8866 Ext. 102

Fax: 310-328-8185

Date Prepared:

September 22nd, 2014

Name of Device and Proprietary Name:

Pihsiang Machinery Mfg. Co. LTD Model: 888 WNLE Powered Wheelchair Shoprider Mobility Products, Inc. Marketed name: Rovi X3

Common or Usual Name:

Powered Wheelchair

Classification Name:

Wheelchair, Powered, Class II, 21 CFR 890.3860

Product Code:

ITI

Indications for Use:

The intended use of the 888 WNLE powered wheelchair by Pihsiang Machinery Mfg. Co., LTD is to provide mobility solutions to individuals who are limited to a seated position.



- World Factory of Most Reliable Consumer Powered Products -

Pihsiang offers you a complete mobility package incorporating world class quality, design, reliability and service.

No. 108 Hsin-He Road, Hsin-Feng Hsiang, HsinChu 304, Taiwan Email: sales@pihsiang.com.tw Tel:+886-3-568-8585 Fax: +886-3-568-8855

Device Description:

The 888 WNLE is a Center-wheel Drive Powered Wheelchair with front and rear pivoting caster wheels. It is equipped with a pair of electronic 4 pole 24vdc motors, electronic solenoid brakes, and two 12V 60Ah Group M34 batteries. The 888 WNLE is controlled by a PG Drives VR2 controller and is configured for an Off-board Charger. The 888 WNLE has front and rear battery access, and the main frame is composed of a welded steel construction. The 888 WNLE is joystick controlled, which when deflected, informs the controller to release the electromagnetic parking brake and apply power to the motors. This enables the chair to travel in the direction selected by the user with the joystick. When the user releases the joystick, the controller employs regenerative braking to bring the chair to a stop before electromagnetic parking brakes are applied automatically. The 888 WNLE is intended to be driven on various dry outdoor surfaces such as blacktop, concrete, and asphalt.

The 888 WNLE is also equipped with a vinyl Captain's seat with adjustable reclining back. Optional accessories are adjustable height armrests and a center mount foot platform, which help to properly position and support the user.

Predicate Device:

Jazzy 600 (K042612)

Predicate Device Indications for Use:

The intended use of the Pride Mobility Products Corp. Jazzy 600 Powered Wheelchair is to provide mobility to persons limited to a seated position.

Comparison to Predicate Devices:

The 888 WNLE is substantially equivalent to the Pride Mobility Jazzy 600 (K042612) when comparing performance, maneuverability, stability, and dimensions. Both the 888 WNLE and Jazzy 600 (K042612) utilize a center mounted drive wheel with front and rear casters (on the ground) to maintain stability. The 888 WNLE is equipped with a suspension that allows the unit to achieve the same Intended use of the Jazzy 600, providing mobility to persons limited to a seated position, while maintaining optimal stability and without hindering performance. Both the 888 WNLE and the Jazzy 600 (K042612) utilize side mounted freewheel levers, and are equipped with PG Drives VR2 motor control systems. The technical differences that exist between the 888 WNLE and the Jazzy 600 (K042612) are few. While the 888 WNLE is equipped with a larger capacity battery 60Ah 12vdc (Group M34), it is the same type of energy source utilized in the Jazzy 600 (K042612), 55Ah 12Vdc battery (Group NF22). Another difference is that the 888 WNLE is designed for front and rear battery access while the Jazzy 600 (K042612) is designed for front battery access only. Finally the 888 WNLE is equipped with two 4 pole 24vdc motors while the Jazzy 600 (K042612) is equipped with two 2 pole 24vdc motors. The addition of the



- World Factory of Most Reliable Consumer Powered Products -

Pihsiang offers you a complete mobility package incorporating world class quality, design, reliability and service.

No. 108 Hsin-He Road, Hsin-Feng Hsiang, HsinChu 304, Taiwan Email: sales@pihsiang.com.tw Tel:+886-3-568-8585 Fax: +886-3-568-8855

extra 2 poles to the drive motor provide for extra power and enables the 888 WNLE to provide the necessary performance to fulfill its intended use.

Non-Clinical Testing:

RESNA WC Vol.1 2009 - Requirements and Test Methods for Wheelchairs (Including Scooters)

- Section 1: Determination of Static Stability
- Section 5: Determination of dimensions, mass, and maneuvering space
- Section 7: Method of measurement of seating and wheel dimensions
- Section 8: Requirements and test methods for static, impact and fatigue strengths
- Section 11: Test Dummies
- Section 13: Determination of coefficient of friction of test surfaces
- Section 15: Requirements for information disclosure, documentation and labeling
- Section 16: Resistance to Ignition of Upholstered Parts Requirements and Test Methods
- Section 22: Set-up procedures
- Section 26: Vocabulary

RESNA WC Vol. 2 2009 - Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems

- Section 2: Determination of dynamic stability of electrically powered wheelchairs
- Section 3: Determination of effectiveness of brakes
- Section 4: Energy consumption of electrically powered wheelchairs and scooters for determination of theoretical distance range
- Section 6: Determination of maximum speed, acceleration and deceleration of electrically powered wheelchairs
- Section 9: Climatic tests for electrically powered wheelchairs
- Section 10: Determination of obstacle –climbing ability of electrically powered wheelchairs
- Section 14: Power and control systems for electrically powered wheelchairs requirements and test methods
- Section 21: Requirements and Test Methods for Electromagnetic Compatibility of electrically powered wheelchairs and motorized scooters

ISO 14971: 2009 Medical devices -- Application of risk management to medical devices

Compliance to ISO 10993 Biocompatibility

Summary of Excluded Section:

Certain sections of RESNA WC-1/-2: 2009 were not evaluated because they were specific to features not available or applicable to 888 WNLE. The subsections are detailed in FDA-3654 Standards and Data Report forms.





- World Factory of Most Reliable Consumer Powered Products -

Pihsiang offers you a complete mobility package incorporating world class quality, design, reliability and service.

No. 108 Hsin-He Road, Hsin-Feng Hsiang, HsinChu 304, Taiwan Email: sales@pihsiang.com.tw Tel:+886-3-568-8585 Fax: +886-3-568-8855

Conclusion of Non-Clinical Testing:

The 888 WNLE has been tested to evaluate its safety and performance. The 888 WNLE was found to be in compliance with all voluntary test standards referenced above. Performance testing indicates the 888 WNLE is capable of negotiating obstacles up to 80mm in height, is proven to be stable on inclines up to 9°, and capable of theoretical range of 16.4 miles. These results were obtained using the maximum capacity of 300 lbs. These results are well above the requirements of 60mm obstacle height, 7.5° for inclines, and 12 miles for theoretical range. Additional testing has also proven the 888 WNLE is structurally sound, compliant to all electrical, and flammability standards. Biocompatibility for polyurethane vinyl (seat) and polyurethane foam (armrests) has previously been evaluated and cleared under ITI powered wheelchair TE 888W (K983808). Exclusions to the voluntary standards listed above are detailed in FDA-3654 Standards and Data Reports.

<u>Discussion of Clinical Testing Performed:</u> N/A

Conclusions:

The 888 WNLE has an equivalent intended use and similar technological characteristics as the Jazzy 600 (K042612). The results of non-clinical testing and the comparison of the 888 WNLE to the Jazzy 600 (K042612) have proven that the technical differences do not raise any new questions of safety or effectiveness. Based on these findings, it is the assertion that the 888 WNLE is substantially equivalent to the Pride Mobility Jazzy 600 (K042612) and is safe for the Intended Use.